



# Naval Information Warfare Center Atlantic

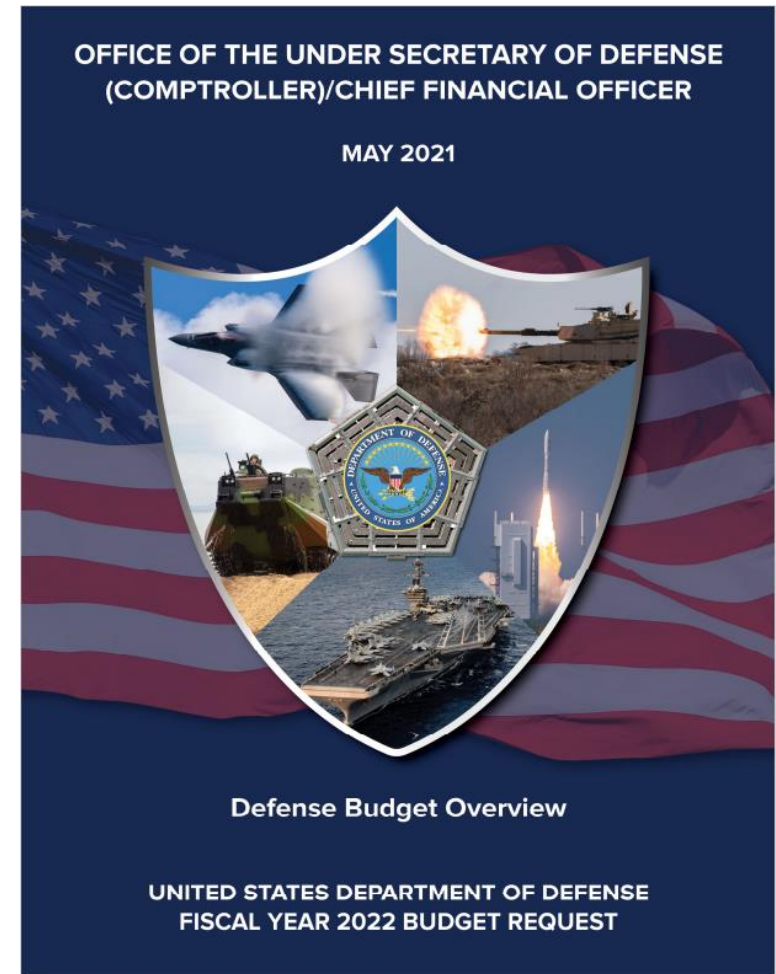
Tidewater Association of Service Contractors  
**Naval Information Warfare Center**  
**Atlantic Industry Day**

16 June 2021

**Mr. Peter C. Reddy, SES**  
Executive Director  
NIWC Atlantic

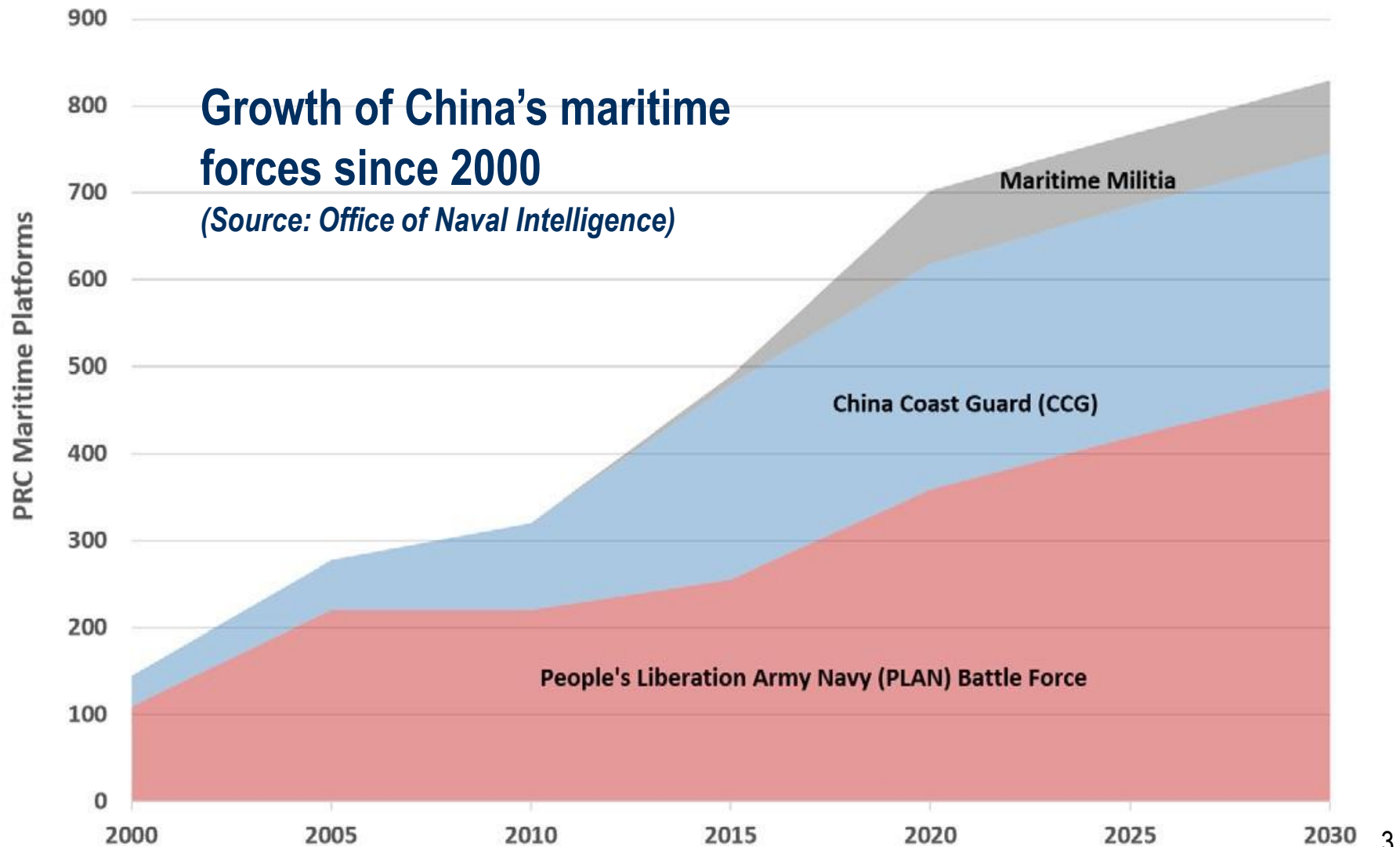
# DON FY-22 Budget

- ▼ Modernizes, maintains, and builds an integrated all-domain fleet
- ▼ Strikes the right balance between modern and legacy platforms
- ▼ Represents the best mix of readiness for today, modernization for tomorrow and investment in the future
- ▼ Focuses on defending the Nation, succeeding through teamwork, and taking care of our people.
- ▼ Ensures we can build and sustain our military advantage.
- ▼ The Columbia-class submarine remains the most important acquisition priority

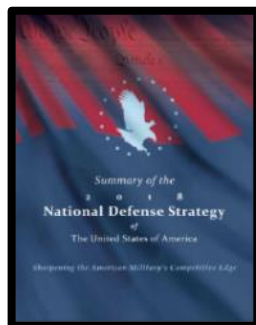


[https://comptroller.defense.gov/Portals/45/Documents/defbudget/FY2022/FY2022\\_Budget\\_Request\\_Overview\\_Book.pdf](https://comptroller.defense.gov/Portals/45/Documents/defbudget/FY2022/FY2022_Budget_Request_Overview_Book.pdf)

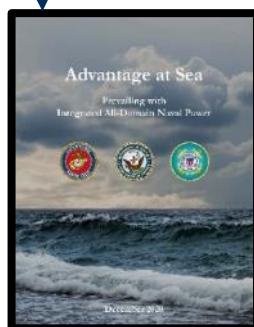
# *Urgency to move faster, take advantage of Innovation and Advancing Technologies*



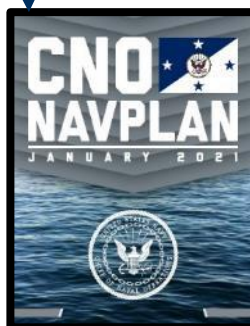
# Executing National and Naval Strategies



National Defense Strategy



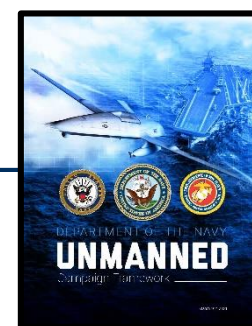
"Advantage at Sea"  
Tri-Service Maritime Strategy



CNO NAVPLAN



38th Commandant's  
Planning Guidance

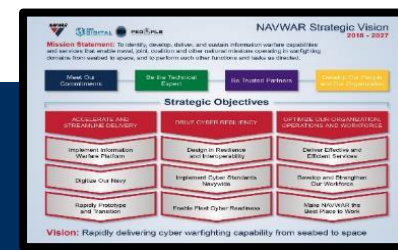


DON Unmanned  
Campaign Framework

## Partners:

- ✓ Match and deliver the Navy's demand for new technologies and equipment.
- ✓ Ensure the growth and health of technical knowledge and skills.
- ✓ Improve planning and communication. Keep lines of communication open, deliver on time.

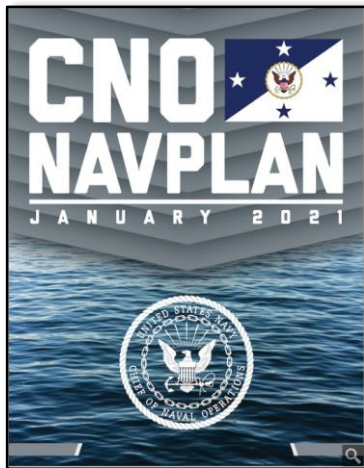
**NIWC Atlantic's Execution Plan Aligns to NAVWAR's Strategic Vision to execute National and Naval strategies**





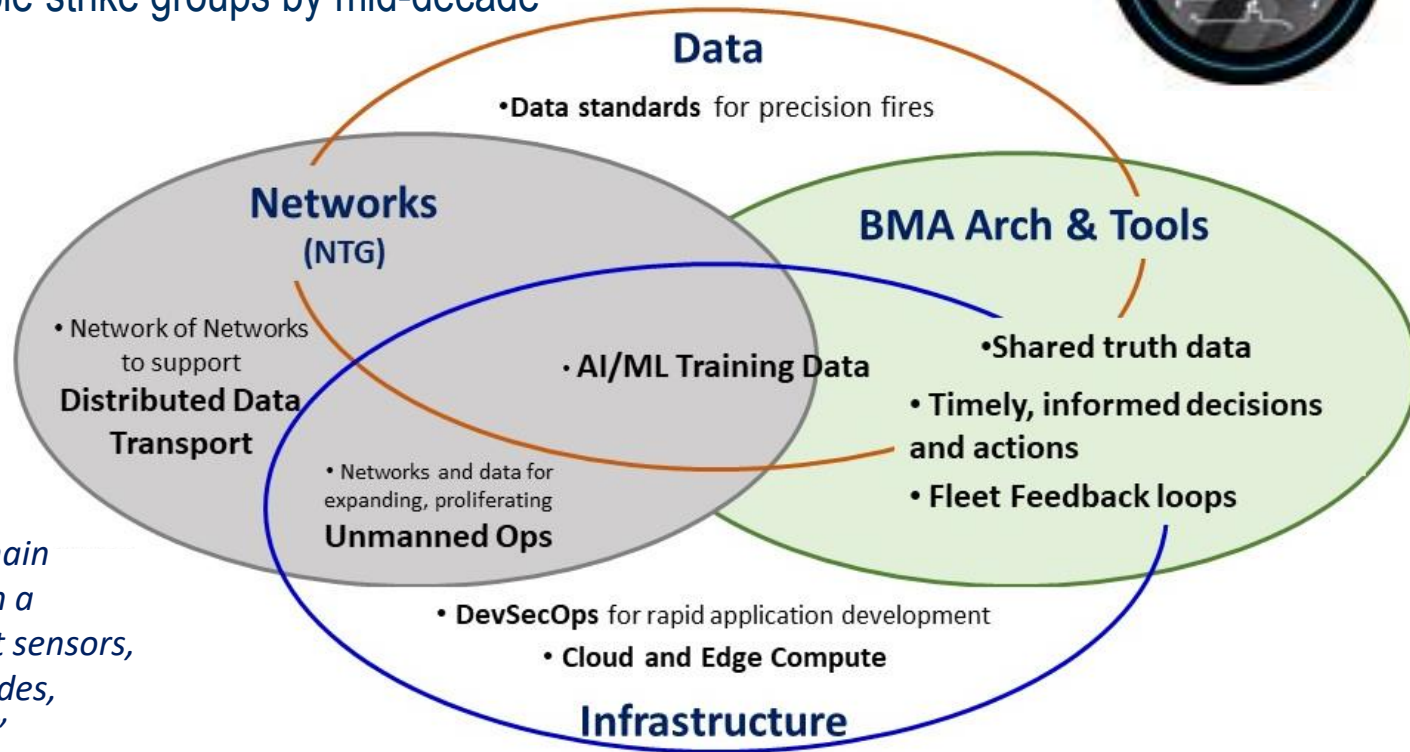
# Overmatch

- ▼ Aligning resources & expertise to field Naval Operational Architecture (NOA)
- ▼ Enabling Distributed Maritime Operations (DMO)
- ▼ Employing a core team to execute an agile approach with Fleet centric design
- ▼ Deploying on multiple strike groups by mid-decade



*"We must close the kill chain faster than our rivals with a resilient web of persistent sensors, command and control nodes, platforms, and weapons."*

~ CNO NAVPLAN



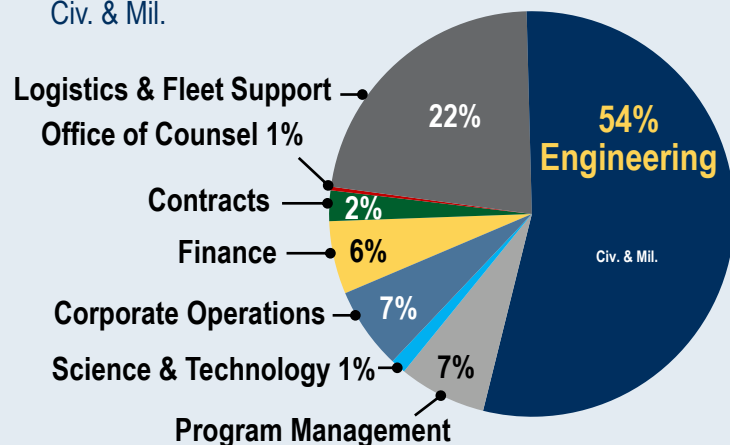
Minimum Viable Product (MVP) Epic Testing ongoing in hardware/software in the loop environment

# Workforce/Operational Profile

## Workforce by Competency

### NIWC Atlantic

Civ. & Mil.



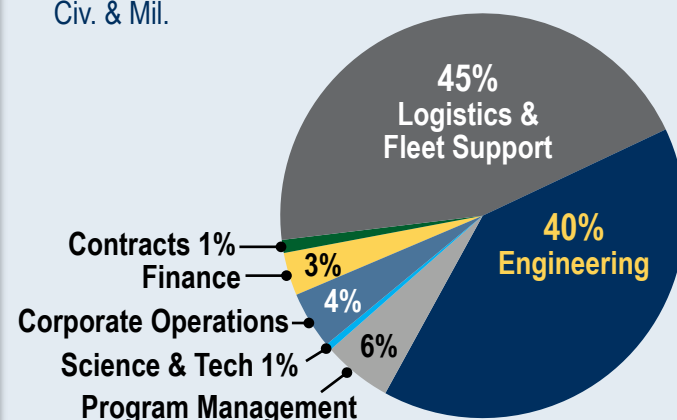
## Top Series (60%)

- IT Specialist (21%)
- Electronics Engineer (12%)
- Computer Scientist (11%)
- Electronics Tech (9%)
- Mgmt & Prog Analyst (7%)

## Workforce by Competency

### Hampton Roads

Civ. & Mil.



Primarily a Navy Working Capital Fund (NWCF) Organization, relying on sales revenue rather than direct Congressional appropriations to finance its operations

NWCF improves cost awareness,  
promotes cost management &  
increases flexibility

- ✓ Generates adequate revenue to cover cost of operations
- ✓ Operates on a break-even basis

Optimizing our people, processes, & tools to deliver information warfare solutions

# Hampton Roads, VA

## Key Facilities and Technical Capabilities

Personnel: 896 Gov't, 93 Mil



- 33 buildings (662k sq ft)
- Fleet Operations & support
- Co-located with Fleet Forces Command and NAVIFOR
- Communication systems integration & maintenance
- Navigation systems
- Navy Tactical Command Support System (NTCSS)
- Integrated Undersea Surveillance System
- Fleet Installations and Upgrades, CANES / NTCSS
- USMC IT Strategic Sourcing



# Other Major Locations Driving IW Capabilities

## Charleston, SC

3,278 Gov't, 15 Mil

- Tactical network systems and end-to-end testing
- Cyber Forensics and Data Recovery Labs
- Vehicle, Surface Ship, and Submarine C4I test and integration
- DoD Component Enterprise Data Center
- Air Traffic Control engr. & technical services
- Electromagnetic & Environmental test labs
- Commercial & DoD Satellite Communications



## New Orleans, LA

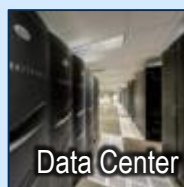
248 Gov't, 7 Mil

**Develop and support software programs that help our warfighters with pay and benefits**

- Center of DON manpower & personnel software design & support
- DON Global Distance Support (Help Desk)
- DOD Component Enterprise Data Center
- Veterans Benefits Mgmt. IT Systems, web portal & software development
- Logistics & IT support
- GCSS MC Service Desk
- Defense Health



Watch Floor



Data Center

## National Capital Region

222 Gov't

**Gather and understand information that keeps our warfighters and nation safe**

- FLTCYBERCOM / C10F
- NAVSEA & NAVAIR Platform C4I/Cyber / ID support
- USCYBERCOM (USCC)
- IESS (Secret Service protected facilities)
- PEO-EIS / NGEN
- DCGS-N / DCGS-MC
- MARCORSYSCOM
- Anti-Terrorism / Force Protection
- DCI / MCWL embeds



Cryptologic & Intel

## Other CONUS/OCONUS

287 Gov't, 7 Mil

**Supports our warfighters with IT and information warfare capabilities wherever they are**

- Expeditionary and USSOCOM C4I systems
- USCENTCOM
- CNE / C6F
- Ballistic Missile Defense/Aegis ashore
- USEUCOM
- USAFRICOM
- MILCON C4I support

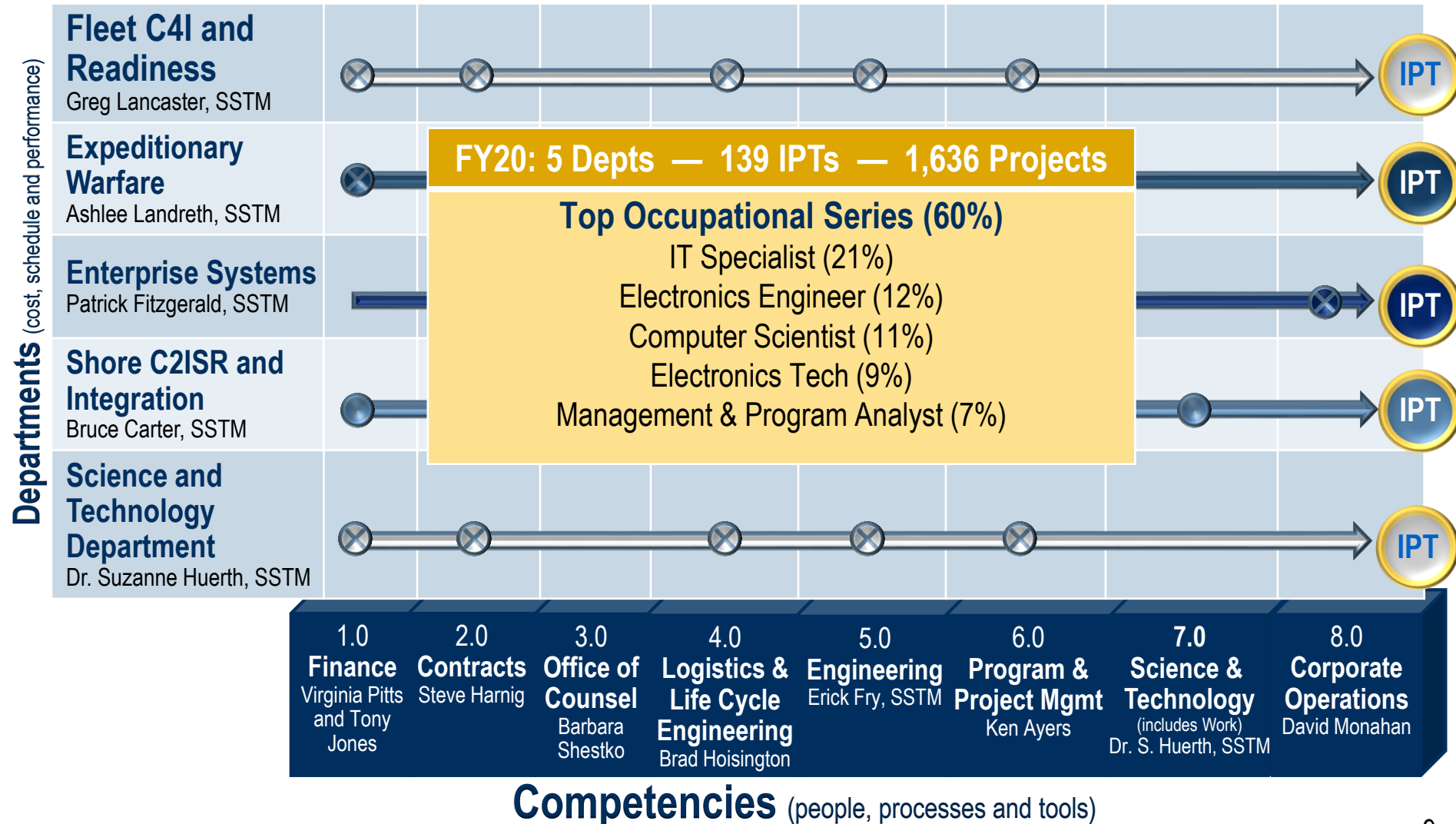


Driving integration and interoperability into Naval Capabilities



# Organized Around Integrated Product Teams

**Integrated Product Team (IPT)** competencies cooperatively functioning together to produce goods and services



# 8 Technology Focus Areas (TFAs) to Achieve Technology Goals

Technology Strategy and TFA analysis drives work acceptance and lab/facility infrastructure allocations and tools.



**Artificial Intelligence:** Provide warfighters with analytics-driven, data-informed, and technology-empowered capabilities to drive decision advantages and optimal mission outcomes.



**Assured Communications:** Addresses the demand for resilient, and sometimes covert, wired and wireless communications in degraded and/or denied environments.



**Cloud Computing:** IT modernization and digital transformation for resilient infrastructure, platform and software services.



**Cybersecurity:** Provides protection from unauthorized use of and/or defends electronic data, hardware, software from disruption or of the services they provide.



**DevSecOps:** Refers to replacing siloed Development, Security and Operations to create multidisciplinary teams that collaborate with shared and efficient practices and tools.



**Mobility:** Provide Wireless Technology and enterprise access for the warfighter to engage with a mobile environment and applications, anytime, anywhere.



**Model-Based Systems Engineering (MBSE):** Technologies used to support the development, management and application of virtual constructs of varying fidelity across the spectrum of systems engineering.



**On-Demand Manufacturing:** Produce products and/or components, when or as they are required at the point of use, using additive and/or traditional manufacturing methods.

**IWRP is the first Naval Consortium to have successful prototypes transitioned to production.**

Mission to foster collaboration between Government, Industry and Academia to identify, develop and demonstrate the enabling technologies necessary to enhance the Navy and Marine Corps mission effectiveness in the field of Information Warfare.

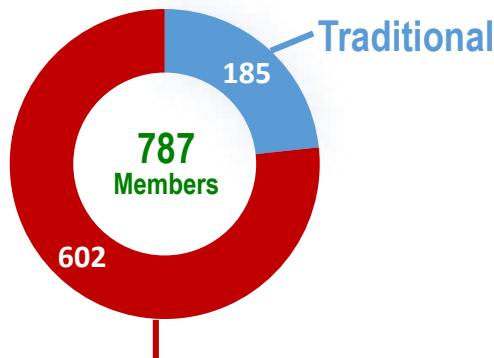
## Membership Spans 37 States



Since Oct FY19 1048+ Structured collaboration engagements between industry and the government

**Become a member**

<https://www.theiwrp.org>



**77% Nontraditional Industry bases** allows access to move innovative capabilities

**\$500M**

Ceiling

**85 prototypes**  
**(\$193M)**

Awarded to Date

**6 Production**  
**(\$253M)**

Awarded to Date

**69% (58 of 84)**  
Awarded to Non-Traditionals

**\$2.3M**

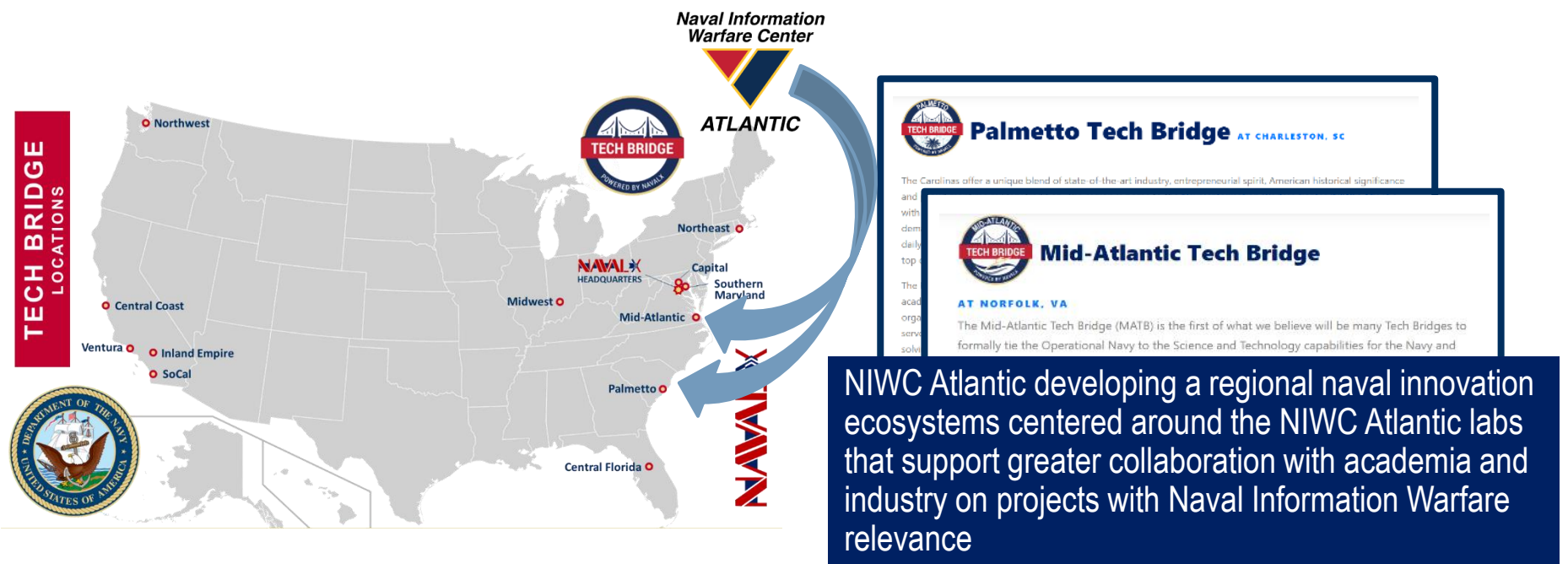
Average Prototype Award

**47**

Industry Day & CMF Events

NavalX serves as DON workforce "super-connector," focused on scaling nontraditional agility methods across the DON workforce.

- ▼ The approach is to connect to pockets of excellence to capture and scale the methodologies being employed, increasing awareness of cross-DoD and external successes, lessons learned, and subject matter experts.





# Advanced Naval Technology Exercises

- ▼ Ship to Shore Maneuver Exploration and Experimentation (S2ME2)
  - FVT, FET, 2 projects in attendance
- ▼ Urban 5th Generation Marines (U5G)
  - FVT, FET, 4 projects in attendance, 2 Focus Area Leads (C2, UxS), 25 people
- ▼ Fight the Naval Force Forward (FNFF)
  - West – 2 Focus Area Leads (C2, UxS), 15 Assessors
  - East – Huge support, 10 projects, 3 Focus Area Leads (C2, Comms, UxS), 50+ engineers, 15 assessors
- ▼ Naval Integration in a Contested Environment (NICE)
  - **NR&DE Lead, FVT, FET, Commercial Solutions Opening (CSO), 9 projects, 4 Focus Area Leads**



**Exposure to future concepts impacts technology decisions**

# Naval Integration in Contested Environments (NICE) Advanced Naval Technology Exercise (ANTX) 2021

Over 60 emerging  
technologies were  
evaluated by the Navy  
and Marine Corps for  
future warfighter  
application.

**10-day Exercise**  
(Apr.5-14, 2021 Camp Lejeune, N.C )



Articles and Videos go to <https://www.niwcatlantic.navy.mil>



# Serve our Nation by delivering information warfare solutions that protect national security. WIN THE INFORMATION WAR.



*NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)*

Web: <https://www.niwcatlantic.navy.mil> Facebook: <https://www.facebook.com/NavalInformationWarfareSystemsCommand>

Twitter: <https://twitter.com/navwarHQ> Instagram: <https://www.instagram.com/spawarhq/> LinkedIn: <https://www.linkedin.com/company/spawar/>

Glassdoor: [https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI\\_IE638508.11,41.htm](https://www.glassdoor.com/Overview/Working-at-SPAWAR-Systems-Center-Atlantic-EI_IE638508.11,41.htm)

Employment opportunities: <https://www.usajobs.gov/> NIWC Atlantic Small Business: <https://www.niwcatlantic.navy.mil/for-industry/>

NAVWAR Contract Directorate Office: <https://e-commerce.sscno.nmci.navy.mil>